BLAUPUNKT

AUTORADIO

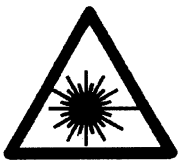
D/EU
Funline 4

Daytona MP53
7 643 290 310

8 622 403 735 PSS/2 BN-ST 04/03

Schaltbild • Circuit diagram

CLASS 1
LASER PRODUCT



UNSICHTBARE LASERSTRAHLUNG
NICHT DEM STRAHL AUSSETZEN
LASERKLASSE 3B

(D) VORSICHT!

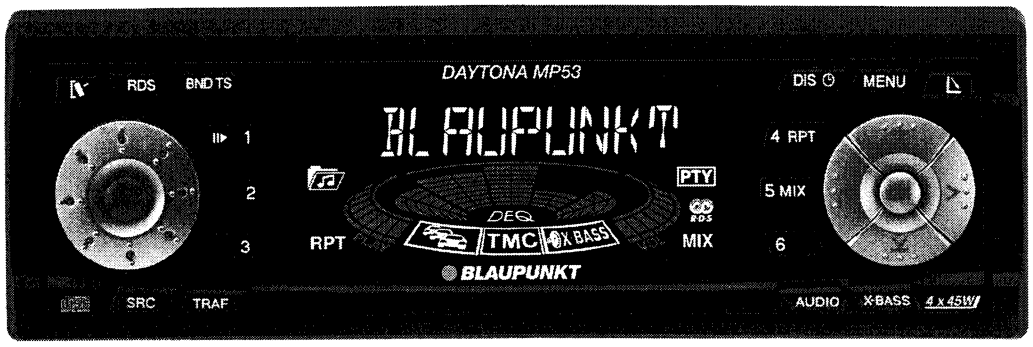
Die Geräte beinhalten eine Laserkomponente! Im Servicefall bitte nachfolgende Hinweise beachten:

- Das Gerät arbeitet mit unsichtbarem Laserstrahl.
- Bei geöffnetem Gerät tritt im Bereich des Plattenfaches Laserstrahlung aus.
- Nicht in den Strahl blicken.
- Unbeteiligte Personen vom Arbeitsplatz fernhalten.
- Der Betrachtungsabstand darf 13 cm nicht unterschreiten.
- Kann dies nicht eingehalten werden, muß eine geeignete Laserschutzbrille getragen werden.

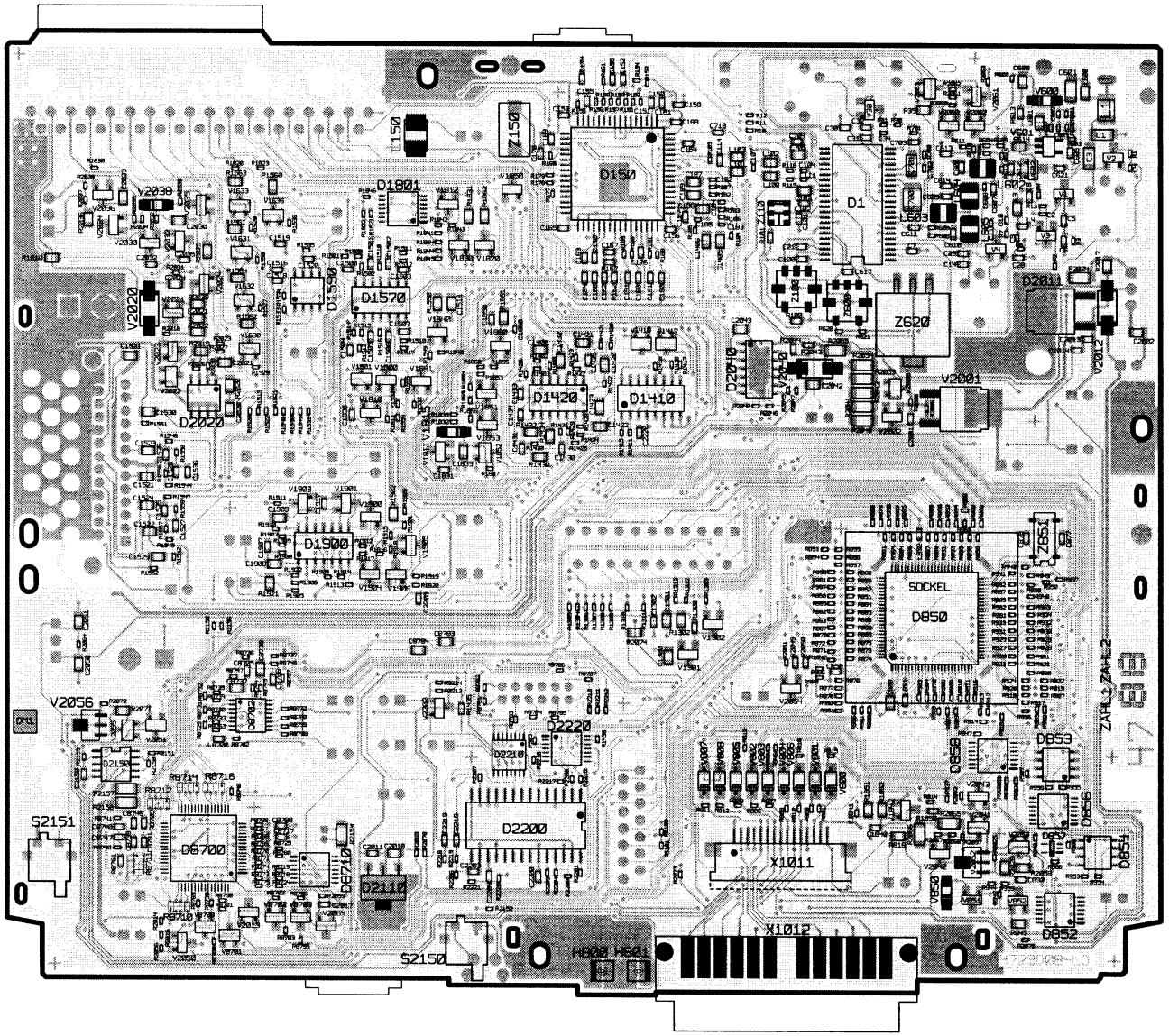
(GB) CAUTION!

The CD units are equipped with a laser component! For servicing make sure to observe the following instructions:

- The unit operates with invisible laser beams.
- When the cover is removed, invisible laser beams are emitted near the disc compartment.
- Avoid direct eye contact with these beams.
- Keep unauthorised persons away from the workbench.
- The viewing distance should not be less than 13 cm.
- If this distance cannot be kept, use suitable laser safety goggles.

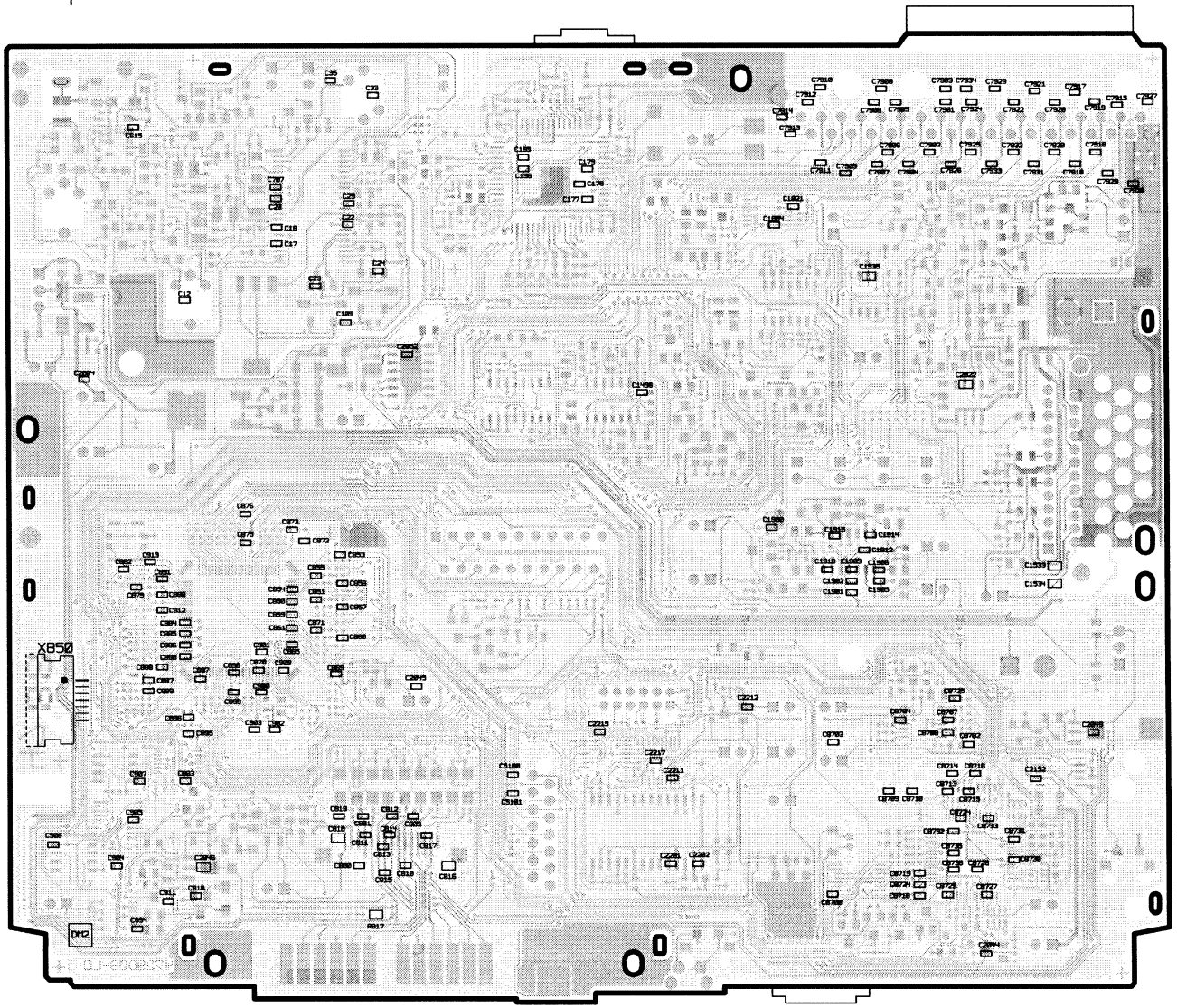


Hauptplatte
Main board
PL 8 638 204 729 D08
Chip

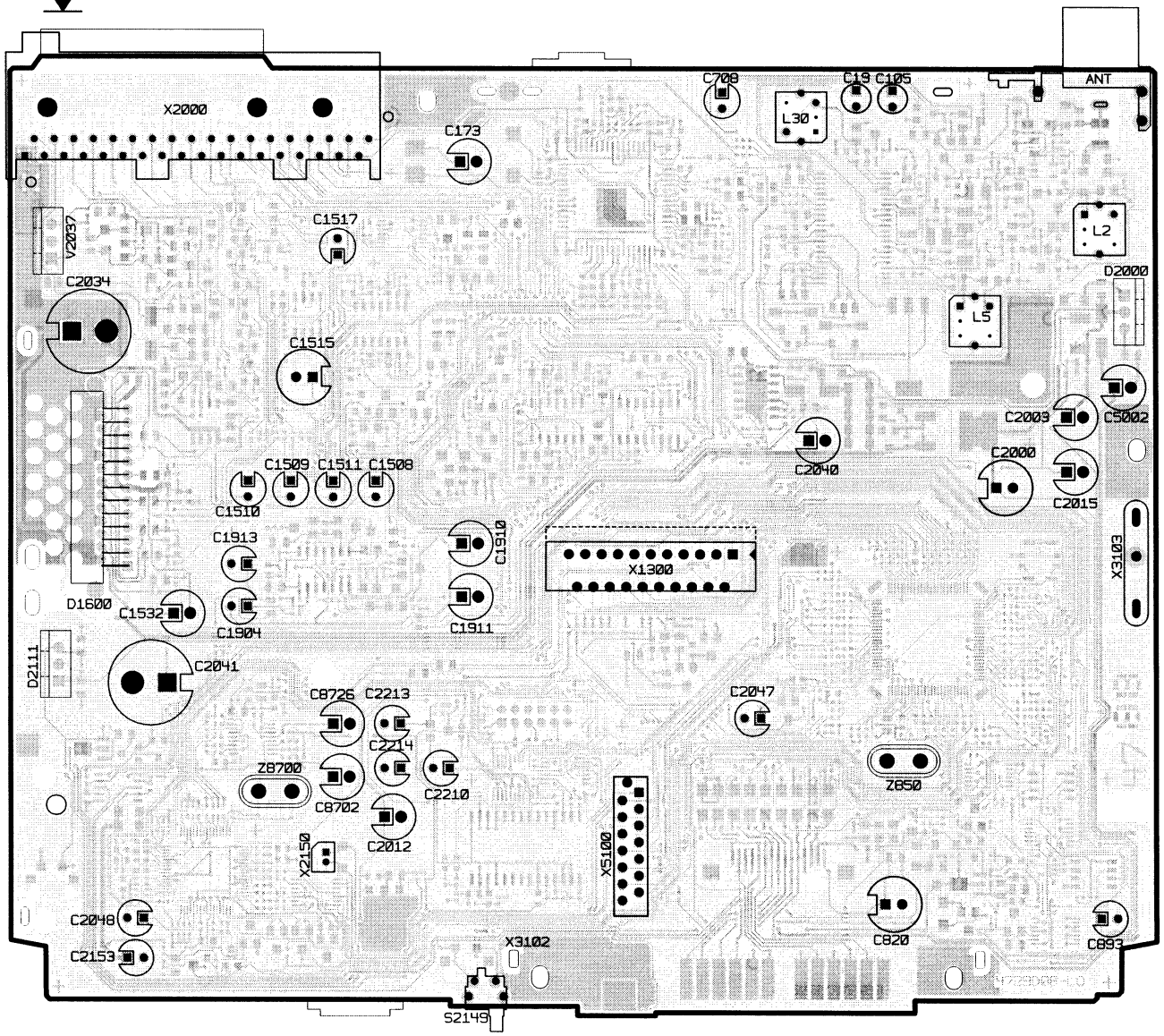


Hauptplatte
Main board
PL 8 638 204 729 D08

Chip



Hauptplatte
Main board
PL 8 638 204 729 D08



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Layout Connector board 4742 D02....27

A=	Miami CD 72 Miami CD 72 US	7641 800 310 7642 800 310	LED, CD LED, CD
B=	Seattle CD 72 Orlando CD 72 Orlando CD 72 US Montreal CD 73 Montreal CD 73 US	7641 803 310 7641 802 310 7642 802 310 7643 810 310 7643 811 310	CCFL, CD
C=	Los Angeles MP 72 Los Angeles MP 72 US Toronto MP 73 Toronto MP 73 US	7641 804 310 7642 804 310 7643 812 310 7643 813 310	CCFL, CD, MP3 CCFL, CD, MP3 CCFL, CD, MP3 CCFL, CD, MP3
D=	Madrid CC 72 Nevada DJ 72 Arizona DJ 73	7641 814 310 7641 816 319 7643 814 319	CCFL, CD CCFL, CD CCFL, CD
F=	Acapulco MP 52 Acapulco MP 52 US Alaska DJ 52 Casablanca CD 52 Casablanca CD 52 US Heidelberg CD 52 Heidelberg CD 52 US	7642 265 310 7642 275 310 7642 420 319 7642 290 310 7642 295 310 7642 280 310 7642 285 310	LED, CD, MP3 LED, CD, MP3 LED, CD LED, CD LED, CD LED, TIM, CD LED, CD

Skyline 3

Funline 4

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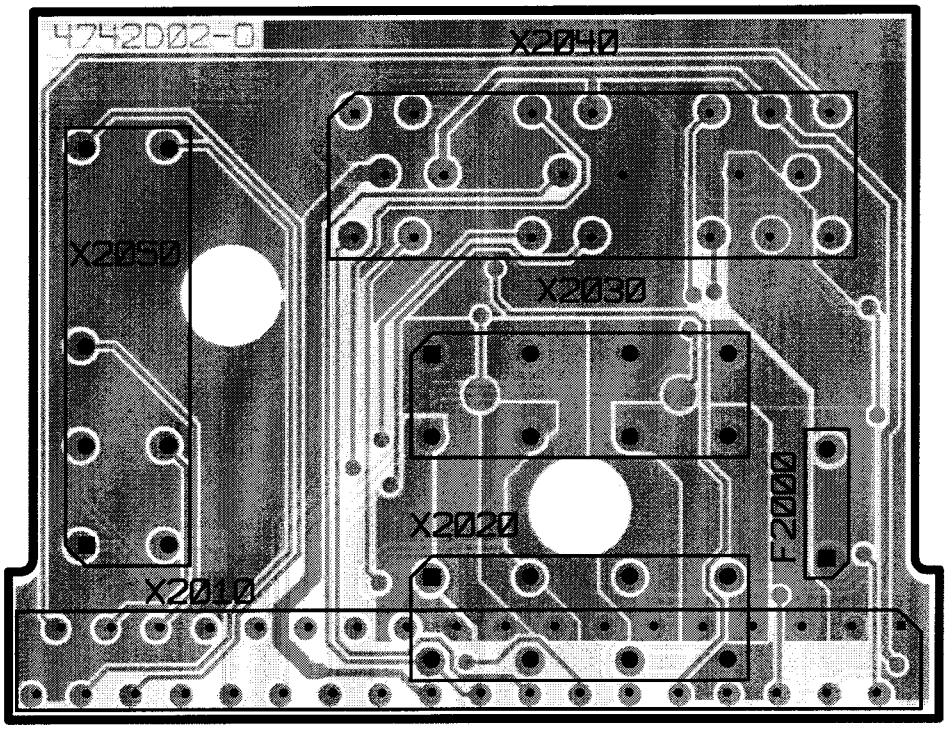
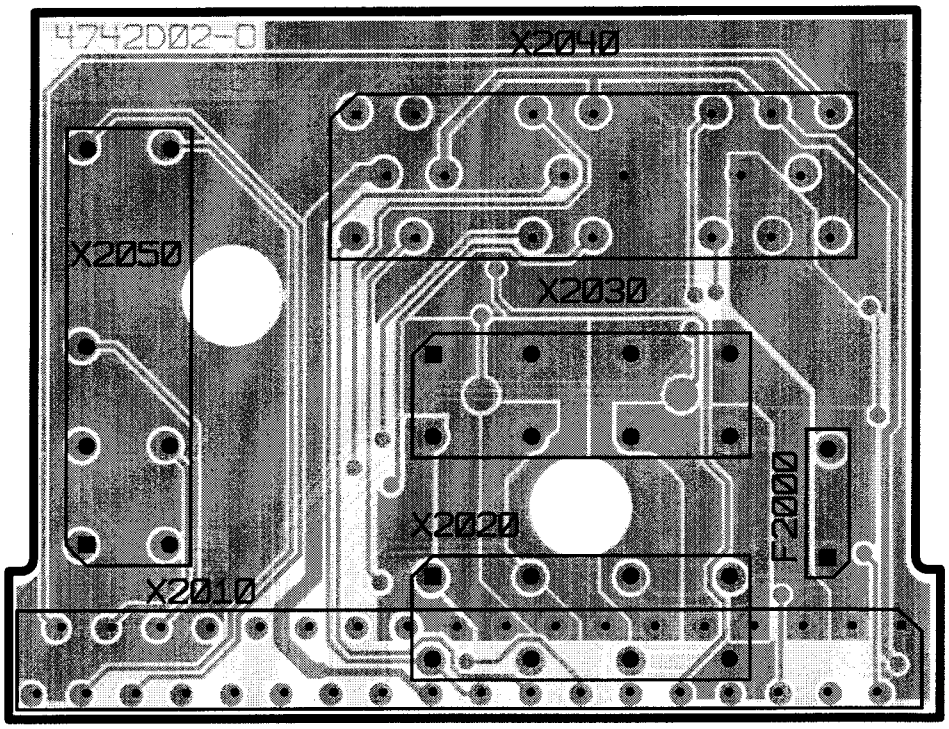
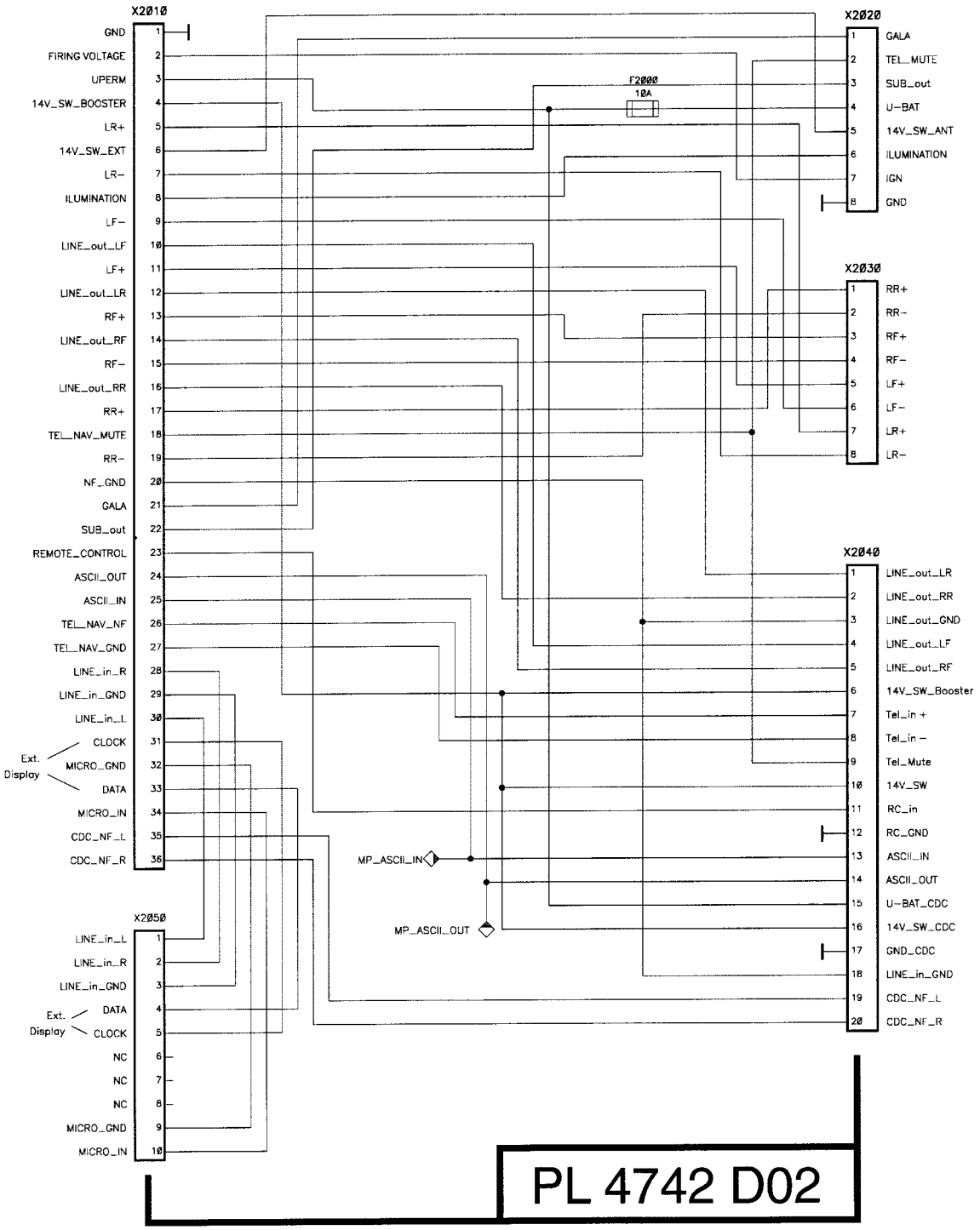
Anschlussplatte
Connector board
PL 8 638 204 742 D02



Anschlussplatte
Connector board
PL 8 638 204 742 D02



ANSCHLUSSPLATTE
CONNECTOR BOARD



PL 4742 D02

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HAUPTPLATTE
MAIN BOARD

Anschlussbelegung-Frontkappe
Connection-Front-CAP

processor

U52_KAPPE
R813 1ØØK
V8Ø5 BZT52 C5V6
V8Ø4 BZT52 C5V6
V8Ø3 BZT52 C5V6
V8Ø2 BZT52 C5V6
C815 1Ø
C811 1ØØ
C812 1ØØ
C813 1Ø
C814 1Ø
Funline CAP X1Ø12
nur F

DEV_SPI_MISO — R8Ø6 47Ø — 1 MISO
DEV_SPI_MOSI — R8Ø7 1ØØ — 2 MOSI
DEV_SPI_SCLK — R8Ø8 1ØØ — 3 SCK
ZBUS_PANEL_CS1 — R8Ø9 1ØØ — 4 CS1
ZBUS_PANEL_REQ — R81Ø 1ØØ — 5 REQUEST
R816 1ØØK — 6 U141_KAPPE
PWR_ON_KEY — R811 1ØØ — 7 GND
8 ON-KEY
9 GND
U52_KAPPE — 1Ø U52_KAPPE
ZBUS_PANEL_RES — R812 1ØØ — 11 RESET
12 NC

V8Ø8 BZT52 C5V6
V8Ø7 BZT52 C5V6
V8Ø6 BZT52 C5V6
C81Ø 1ØØ
C8Ø9 1ØØ
MPU141-K

C817 Ø,1U
C816 47N
Skyline X1Ø11
U141_KAPPE — R817 2,2
U52_KAPPE

1 GND
2 U141_KAPPE
3 GND
4 U52_KAPPE
5 ON KEY
6 RESET
7 CS1
8 MISO
9 MOSI
1Ø SCK
11 REQUEST
12 CS2
13 AØ
14 GND
15 U8Ø_KAPPE

MPKEY
MPRES
MPCS
MPMISO
MPMOSI
MPSCLK
MPREQ

MP_CS2
MP_AØ

U52_KAPPE
R815 68K
R814 68K

ZBUS_PANEL_CS2 — R8ØØ 1ØØ
ZBUS_AØ — R8Ø1 1ØØ

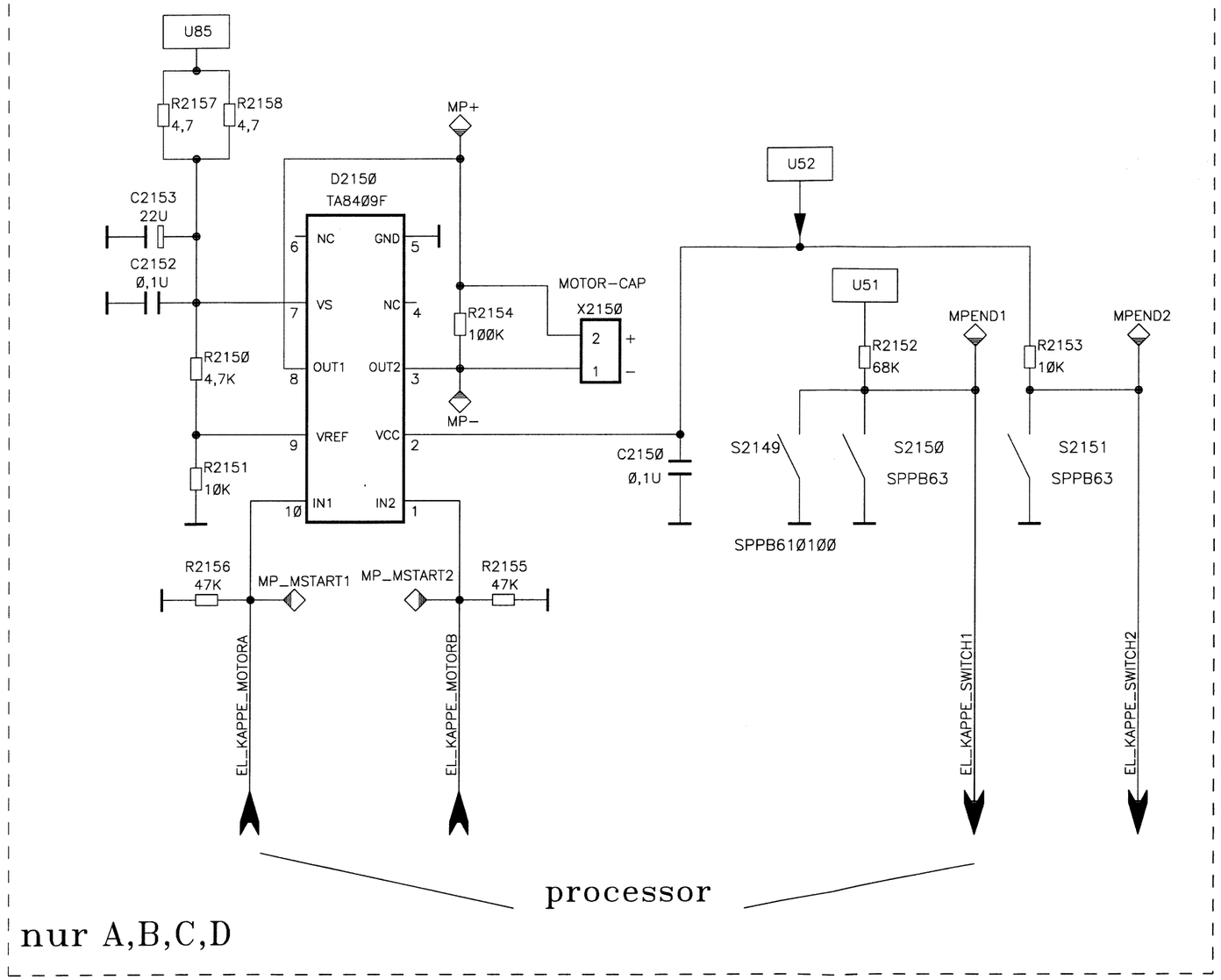
V8Ø1 BZT52 C5V6
C8ØØ 1ØØ
V8ØØ BZT52 C5V6
C8Ø1 1ØØ

MP8Ø_KAPPE
R818 2,2
U8Ø_KAPPE
C818 47N
C819 1N
C82Ø 1ØØU

nur A,B,C,D

NUR A,B,C,D

PL 4729 D08



HAUPTPLATTE
MAIN BOARD

Kappenmotor-Steuerung
Motor controlling Front CAP

PL 4729 D08

HAUPTPLATTE
MAIN BOARD
Spannungsversorgung
Power supply

PL 4729 D08

UBAT
C2030 47N
R2032 2,2K
V2030 BAV99
V2032 BAV99
C2032 0,1U
C2035 0,1U
R2035 150K
V2034 BC848C
C2033 0,47U
V2036 BZX84 C12
R2038 560K
V2037 STP36NE06FP
C2034 3300U
U141
R2034 56K
R2036 68
R2037 330K
V2038 LS4148
V2035 BZX84 C12
R2033 6,8K
af-output LF+
af-output RR+
processor POWER_ON_OFF0
af-output 14V_SW_EXT
af-output 14V_SW_BOOSTER
D2020 BSP742RI
R2020 150
R2030 47K
R2027 10K
C2022 47N
R2026 100K
R2023 100K
C2021 0,47U
C2020 47N
V2020 S1G
V2021 BC807-40
R2021 2,2
R2022 2,2
R2031 4,7K
C2024 47N
R2019 47
R2018 1K
V2022 DTC143ZKA 4,7k 47k
V2023 BC858C
R2039 150
processor POWER_ON_OFF1
V2024 BC848C
R2029 330
V2001 MTD20P06HDL
R2000 2,2K
C2000 100U
U142
processor POWER_ON_OFF2
4,7k 47k
V2000 DTC143ZKA
V2002 BZX84 C12
R2006 100K
C2001 0,1U
U141
H801 LOT670J1
H800 LOT670J1
nur A,B,C,D
nur F
D2040 TLE4269GM
C2043 0,47U
C2052 1N
R2044 10K
R2043 56K
C2042 47N
C2041 2200U
MP_U51
MPUP_RES
processor MC_RESET
R2048 1K
R2045 4,7K
R2046 5,6K
C2040 100U
R2047 1K
processor af-output XRQ
V2040 S1G
R2040 33
R2041 33
R2042 33
R2053 33
R2054 33
R2055 33
U141
U51
DM2 Data-Matrix-Code
NO
X3102 BLECH
X3104 BLECH
X3103 BLECH

U80
R2069 0
R2070 0 n.b.
D2110 TLE4274GSV33
C2010 0,1U
C2011 0,1U
C2012 100U
V2064 BAL99
R2059 10K
C2017 0,1U
C2048 22U
MP_U33
MP_U25
U33
U25
U52
nur C

U51
V2054 BC817-40
R2050 12K
R2049 47K
R2051 100K
C2045 0,1U
C2047 22U
MPU33_UP
U33_UP

U141
R2065 330
R2066 330
R2067 10K
V2041 DTC124XKA
R2068 10K
R2052 100K
ILLUMINATION_SWITCH
interface
R2025 10K
R2058 1,8K
R2028 1,8K
V2053 DTC124XKA 22k 47k
R2057 100K
V2052 BCX53-16
V2042 BC858C
NUR F R2075 0
U142
U141_KAPPE
C2046 47N
V2043 BAV99
POWER_ON_OFF4
processor
NUR A,B,C,D

MP_U52
D2011 MC78M05BDT
C2013 0,1U
C2014 0,1U
C2015 100U
U52
V2012 S1G A,B,C,F
U78
MP_U85
U85
D2000 LM1085IT-ADJ
C2004 0,1U
C2003 100U
R2017 130
R2024 750
C2002 47N
U142
R2064 0 A,F
MP_U80
U80
D2111 L7808ABV
C2050 47N
C2051 47N
nur B,C,D

U51
R2073 0 NUR F
U80
U52
V2056 BCX53-16
U80_KAPPE
C2049 0,1U
R2072 10K
R2056 15
V2050 BC807-40
MPU52_K
C2044 0,1U
U52_KAPPE
V2013 BAV99
R2016 10K
R2014 4,7K
R2071 680
V2051 DTC144EKA 47k 47k
POWER_ON_OFF3
processor
V2055 DTC144EKA 47k 47k
POWER_ON_OFF5
processor
NUR A,B,C,D

HAUPTPLATTE
MAIN BOARD

NF-Teil
AF Section

PL 4729 D08

af-processor

D1570 MC33079D

D1590 BA4558F-DXE2

D1600 TDA7386

U141

U142

U51

processor

power

af-source

adeq

af-proc

interfaces

x2000

1	GND
2	FIRING VOLTAGE
3	UPERM
4	14V_SW_BOOSTER
5	LR+
6	14V_SW_EXT
7	LR–
8	ILUMINATION
9	LF–
10	LINEOUT_LF
11	LF+
12	LINEOUT_LR
13	RF+
14	LINEOUT_RF
15	RF–
16	LINEOUT_RR
17	RR+
18	TEL_NAV_MUTE
19	RR–
20	NF_GND
21	GALA
22	SUB_OUT
23	REMOTE_CONTROL
24	ASCI_OUT
25	ASCI_IN
26	TEL_NAVI_NF
27	TEL_NAVI_GND
28	LINEIN_R
29	LINEIN_GND
30	LINEIN_L
31	EXT–DISPLAY–CLOCK
32	MIKRO_GND
33	EXT–DISPLAY–DATA
34	MIKRO_IN
35	CDCNFL
36	CDCNFR

HAUPTPLATTE
MAIN BOARD

NF-Quellen-Umschaltung
AF Source Controller

af-output

af-processor

processor

connector,mp3

af-output

af-processor

processor

processor

processor

LINEIN_L
LINEIN_GND
LINEIN_R
SOURCE_L
SOURCE_R
NF_SOURCE1
NF_SOURCE2
CC_NF_L
CC_NF_R
TEL_NAVI_GND
TEL_NAVI_NF
SDATEN
SWORD
SCLOCK
TIM_SPI_MOSI
TIM_SPI_MISO
TUN_SPI_CS_TIM
TIM_SPI_SCL
TUN_INT_TIM

R1420 10K
R1421 10K
C1420 Ø,47U
C1421 Ø,47U
R1422 47K
R1423 47K
C1435 22
R1427 47K
R1426 47K
C1432 47N
U52
U142
R1400 220K
C1400 1U
A
R1402 10K
R1403 2,2K
C1436 22
IN-REF
D1420
LM224DR2
VCC
GND
C1434 22
R1432 8,2K
R1433 56K
C1431 Ø,1U
R1430 56Ø
C1422 Ø,47U
C1423 Ø,47U
R1428 47K
C1433 22
R1424 47K
R1425 47K
R1429 47K
R1434 8,2K
R1431 56K
C1430 Ø,1U

R1415 68K
R1411 1M
C1406 1U
C1405 1U
D1410
MC14052BDR
2Y0
2Y2
2Z
2Y3
2Y1
E
VEE
GND
VCC
1Y2
1Y1
1Z
1Y0
1Y3
SØ
S1
U85
R1417 10K
R1418 10K
R1416 68K
V1417 DTC143ZKA
V1418 DTC143ZKA
4,7k
47k

R2210 47
R2211 47
R2212 47
D2220
74AHCT125
/1OE
1A
1Y
/2OE
2A
2Y
GND
VCC
/4OE
4A
4Y
/3OE
3A
3Y
U51
C2215 Ø,1U
R1436 47K
R2216 10K
R2215 10K
R2200 1K
R2217 10K
U34
TIM
U52
R2208 10K
R2201 1K
D2200
ISD4002-240IS
SS
MOSI
MISO
VSSD
NC
VSSA
/INT
RAC
SCLK
XCLK
R2204 47K
R2205 47K
C2200 Ø,1U
C2201 Ø,1U
C2220 4,7N
C2205 4,7N
R2207 10K
TIM-NF
MPTIM_NF
AUDOUT
AMCAP
ANA IN+
ANA IN-
C2202 n.b. Ø,1U
C2203 1ØN
C2204 1N
R2221 Ø
n.b.
R2220 47K
R2219 10K
R2206 10K
R2218 10K
C2218 Ø,1U
C2219 Ø,1U
D2210
UDA1334ATS
BCK
WS
DATAI
VDDD
VSSD
SYSCLK/PLL1
SFOR1
MUTE
VOUTR
VSSA
VOUTL
VDDA
VREF
SFORØ
PLLØ
DEEM/CLKOUT
C2217 Ø,1U
C2211 Ø,1U
C2210 22U
U33
R1435 Ø n.b.
V2202 BC817-40
R2213 1,8K
C2214 22U
R2214 4,7K
C2213 22U
C2212 Ø,1U

nur F

PL 4729 D08

HAUPTPLATTE
MAIN BOARD

Blockschaltbild
Block diagram

PL 4729 D08

HAUPTPLATTE
MAIN BOARD

MP3

processor MP3_REQUEST

processor TUN_SPI_CS_MP3

processor SCL_MP3

processor SDA_MP3

processor MP3_RESET

connetion

CD_LRCK

CD_SCK

CD_DATA

D8700
STA016TH

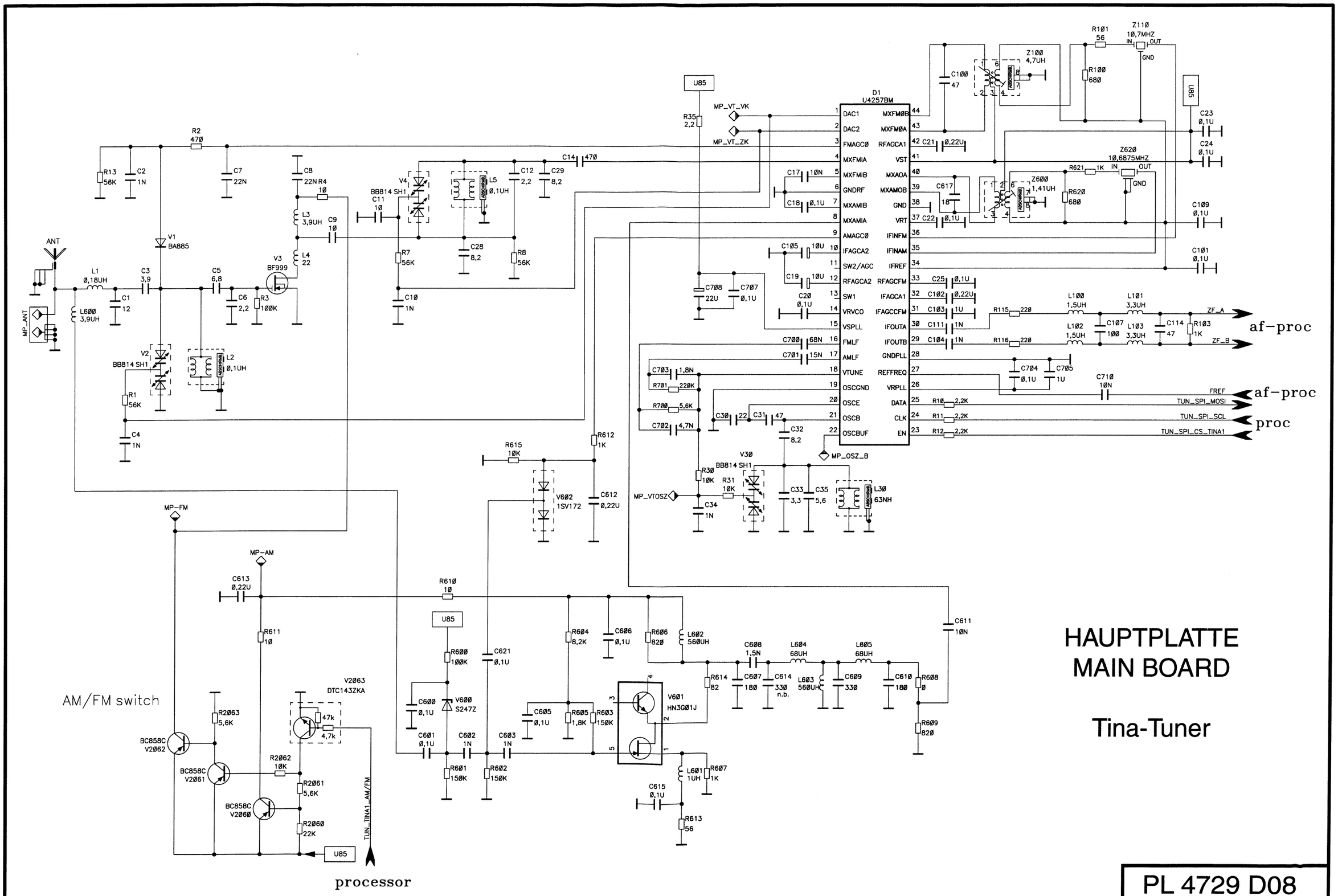
MASSE VOM STA016AUF EINEN STERNPUNKT

D8702
UDA1330ATS

MMC_SWITCH_UP → processor

af-source
CC_NF_R
CC_NF_L

nur C,F


ANT
MP_ANT
L1 Ø,18UH
L600 3,9UH
C3 3,9
C1 12
C5 6,8
C6 2,2
R3 100K
V1 BA885
V2 BB814 SH1
L2 Ø,1UH
R1 56K
C4 1N
R2 470
R13 58K
C2 1N
C7 22N
C8 22N
R4 10
L3 3,9UH
C9 10
V3 BF999
L4 22
V4 BB814 SH1
C11 10
R7 56K
C10 1N
L5 Ø,1UH
C12 2,2
C29 8,2
C28 8,2
R8 56K
C14 470
U85
MP_VT_VK
MP_VT_ZK
R35 2,2
D1 U4257BM
DAC1
DAC2
FMAGC0
MXFMIA
MXFMIB
GNDRF
MXAMIB
MXAMIA
AMAGC0
IFAGCA2
SW2/AGC
RFAGCA2
SW1
VRVCO
VSPLL
FMLF
AMLF
VTUNE
OSCGND
OSCE
OSCB
OSCBUF
MXFM0B
MXFM0A
RFAGCA1
VST
MXAOA
MXAOB
GND
VRT
IFINFM
IFINAM
IFREF
RFAGCFM
IFAGCA1
IFAGCCFM
IFOUTA
IFOUTB
GNDPLL
REFFREQ
VRPLL
DATA
CLK
EN
C17 10N
C18 Ø,1U
C105 10U
C19 10U
C20 Ø,1U
C700 68N
C701 15N
C703 1,8N
R701 220K
R700 5,6K
C702 4,7N
C30 22
C31 47
C32 8,2
MP_OSZ_B
V30 BB814 SH1
R30 10K
R31 10K
MP_VTOSZ
C34 1N
C33 3,3
C35 5,6
L30 63NH
C708 22U
C707 Ø,1U
C100 47
Z100 4,7UH
R101 56
Z110 10,7MHZ
R100 680
C23 Ø,1U
C24 Ø,1U
Z620 10,6875MHZ
R621 1K
C617 18
Z600 1,41UH
R620 680
C22 Ø,1U
C109 Ø,1U
C101 Ø,1U
C25 Ø,1U
C102 Ø,22U
C103 1U
C111 1N
C104 1N
R115 220
R116 220
L100 1,5UH
L101 3,3UH
L102 1,5UH
C107 100
L103 3,3UH
C114 47
R103 1K
ZF_A
ZF_B
C704 Ø,1U
C705 1U
C710 10N
FREF
TUN_SPI_MOSI
TUN_SPI_SCL
TUN_SPI_CS_TINA1
R10 2,2K
R11 2,2K
R12 2,2K
af-proc
af-proc
proc
R615 10K
R612 1K
V602 1SV172
C612 Ø,22U
MP-FM
MP-AM
C613 Ø,22U
R610 10
R611 10
AM/FM switch
V2063 DTC143ZKA
47k
4,7k
R2063 5,6K
BC858C V2062
BC858C V2061
BC858C V2060
R2062 10K
R2061 5,6K
R2060 22K
TUN_TINA1_AM/FM
processor
R600 100K
C600 Ø,1U
V600 S247Z
C601 Ø,1U
C602 1N
C603 1N
R601 150K
R602 150K
C621 Ø,1U
R604 8,2K
C606 Ø,1U
R606 820
L602 560UH
C605 Ø,1U
R605 1,8K
R603 150K
V601 HN3G01J
L601 1UH
R607 1K
C615 Ø,1U
R613 56
R614 82
C608 1,5N
C607 180
C614 330 n.b.
L604 68UH
L603 560UH
L605 68UH
C609 330
C610 180
R608 Ø
R609 820
C611 10N
HAUPTPLATTE
MAIN BOARD
Tina-Tuner
PL 4729 D08

Only use with flash!
Nur bei Flash bestückt!

D850
UPD70F3079YGC-8E

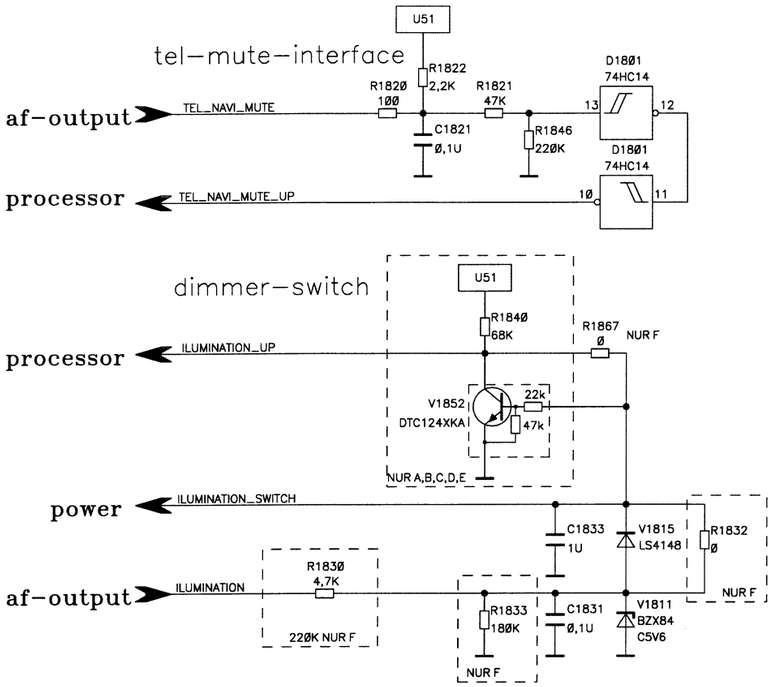
HAUPTPLATTE
MAIN BOARD

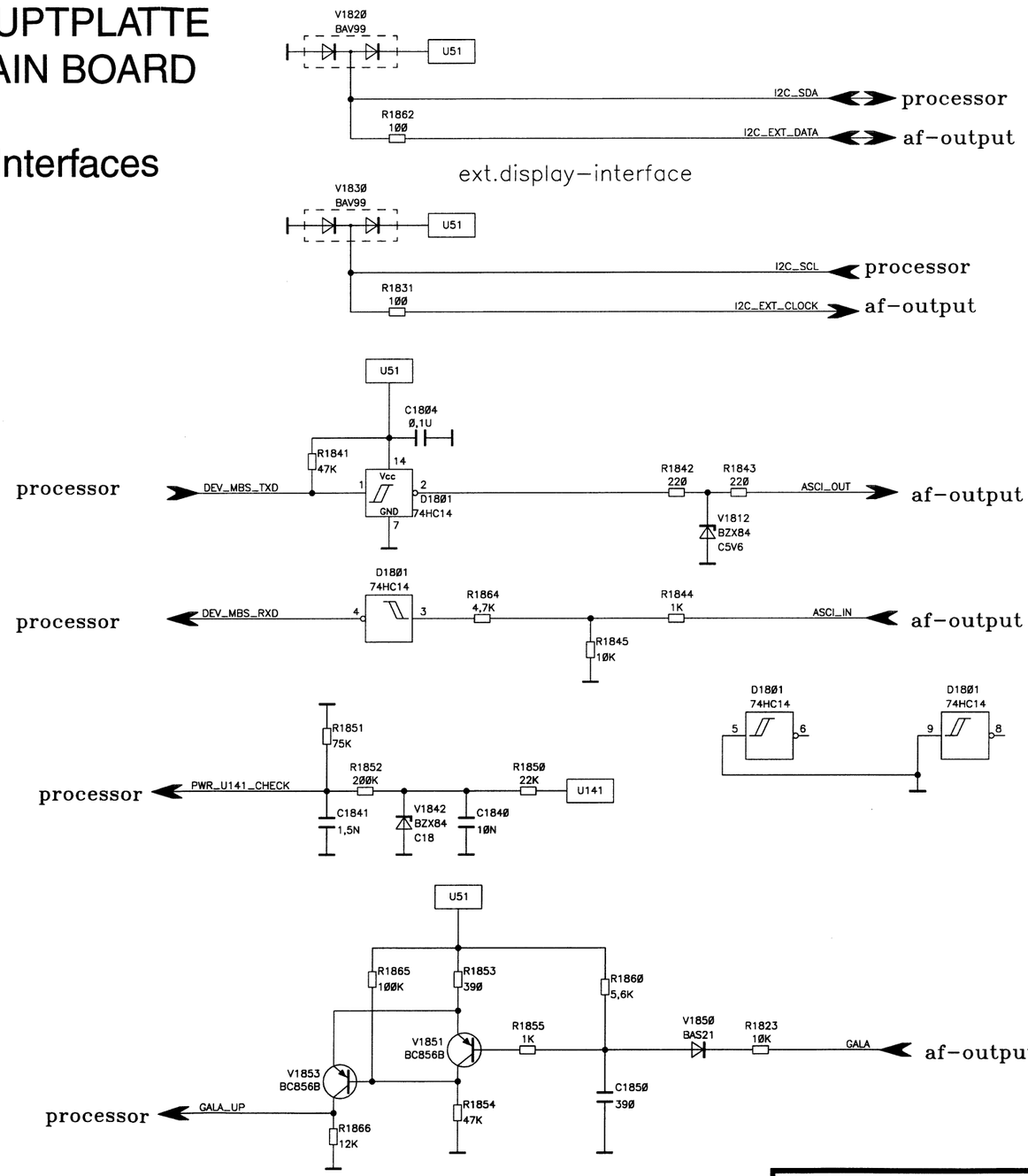
Prozessor
Processor

PL 4729 D08

HAUPTPLATTE
MAIN BOARD

Interfaces

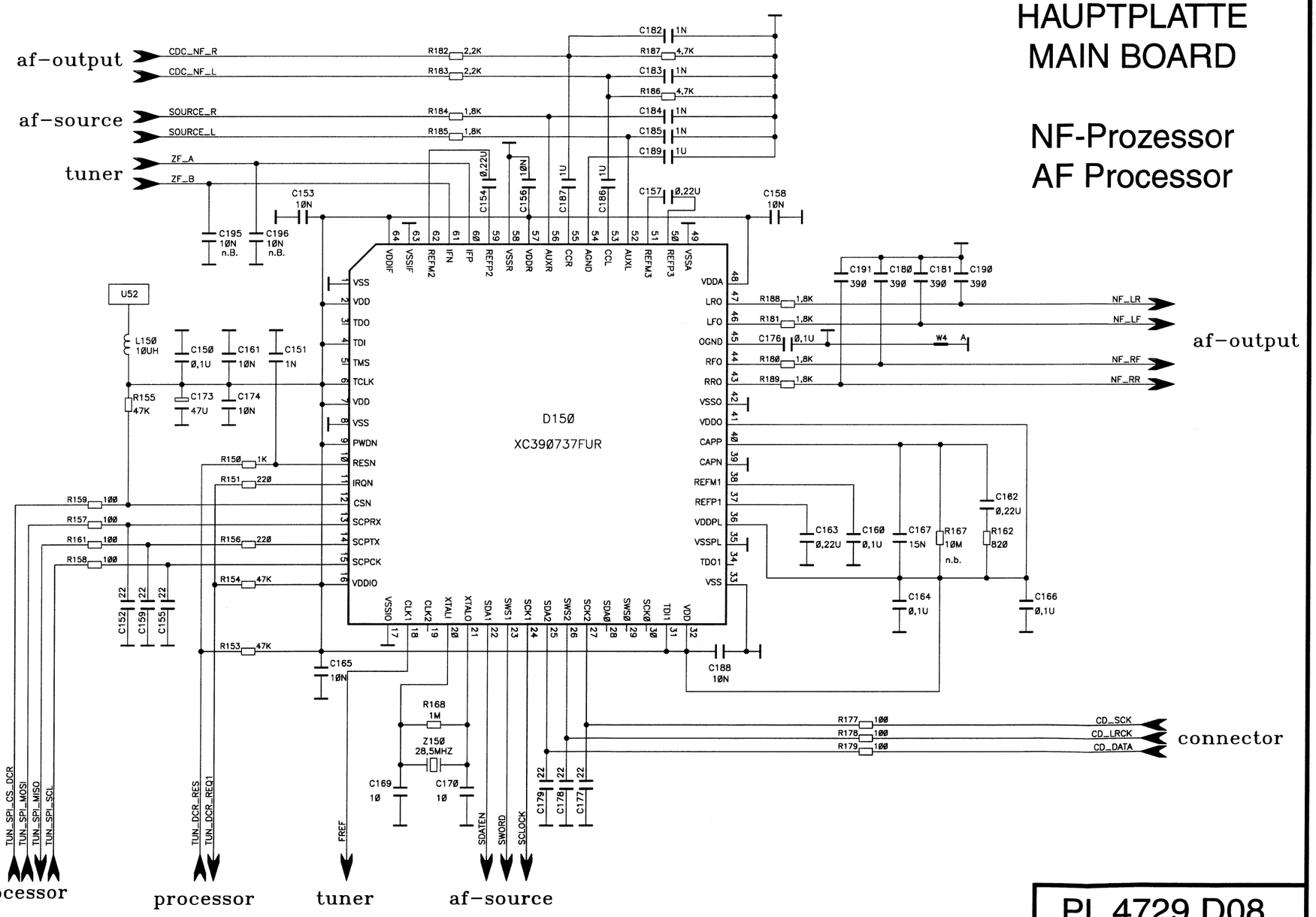




PL 4729 D08

HAUPTPLATTE
MAIN BOARD

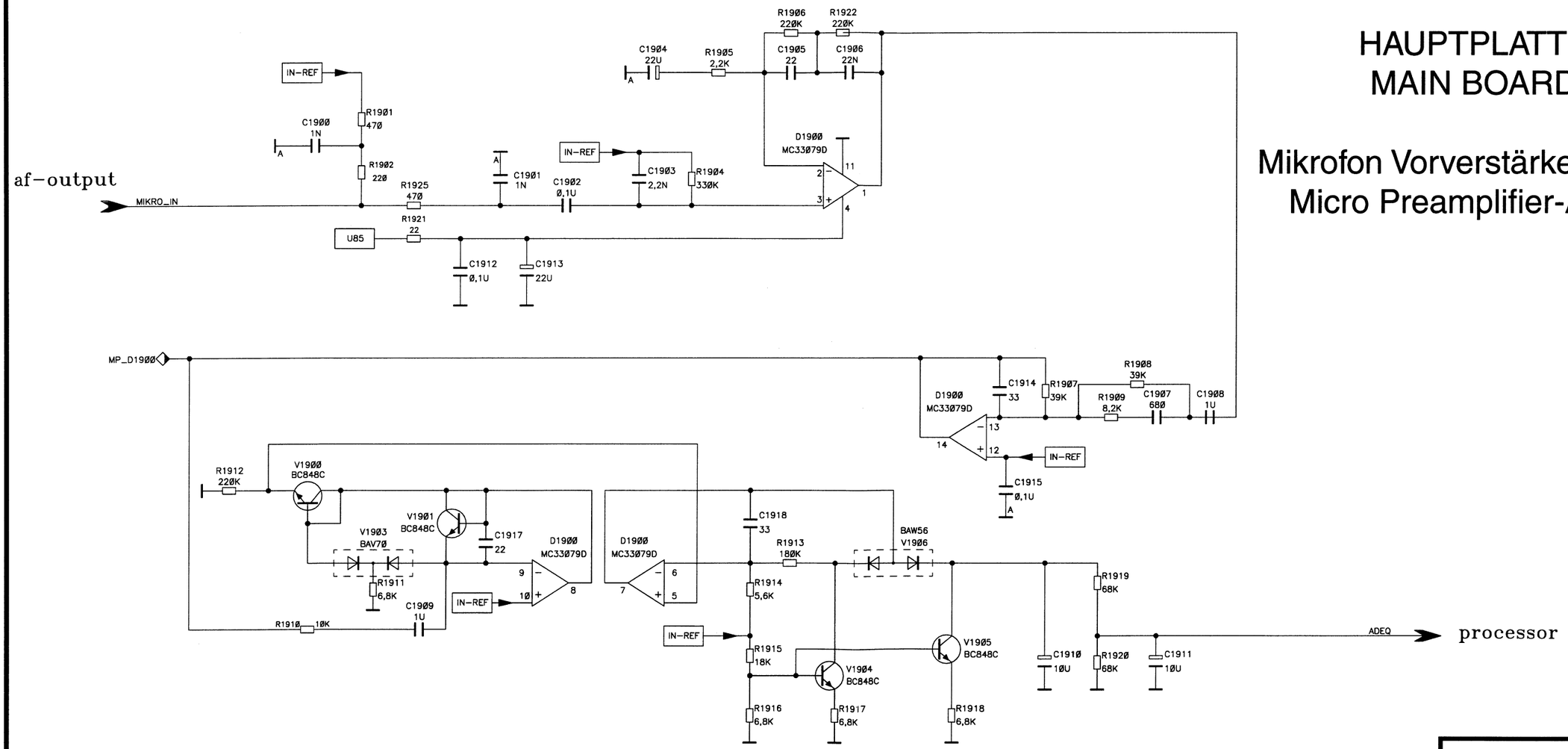
NF-Prozessor
AF Processor



PL 4729 D08

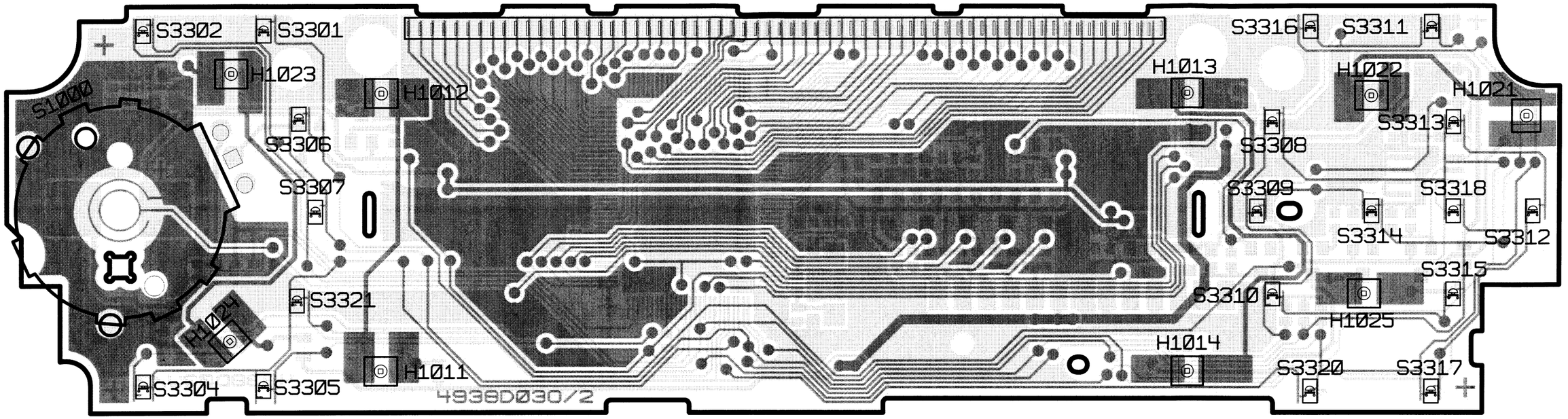
HAUPTPLATTE
MAIN BOARD

Mikrofon Vorverstärker-ADEQ
Micro Preamplifier-ADEQ

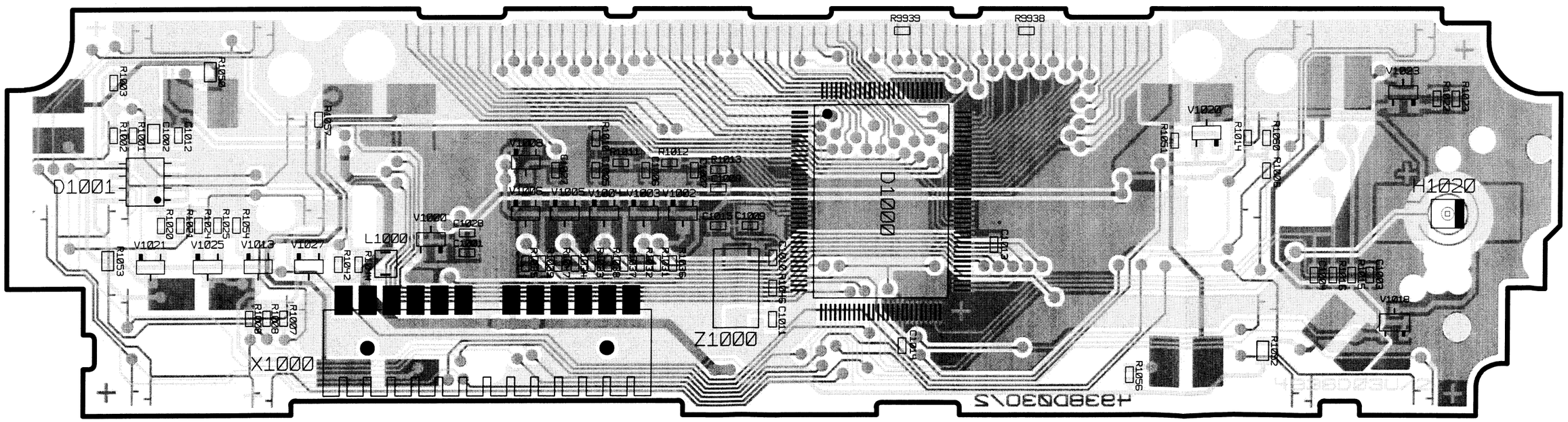


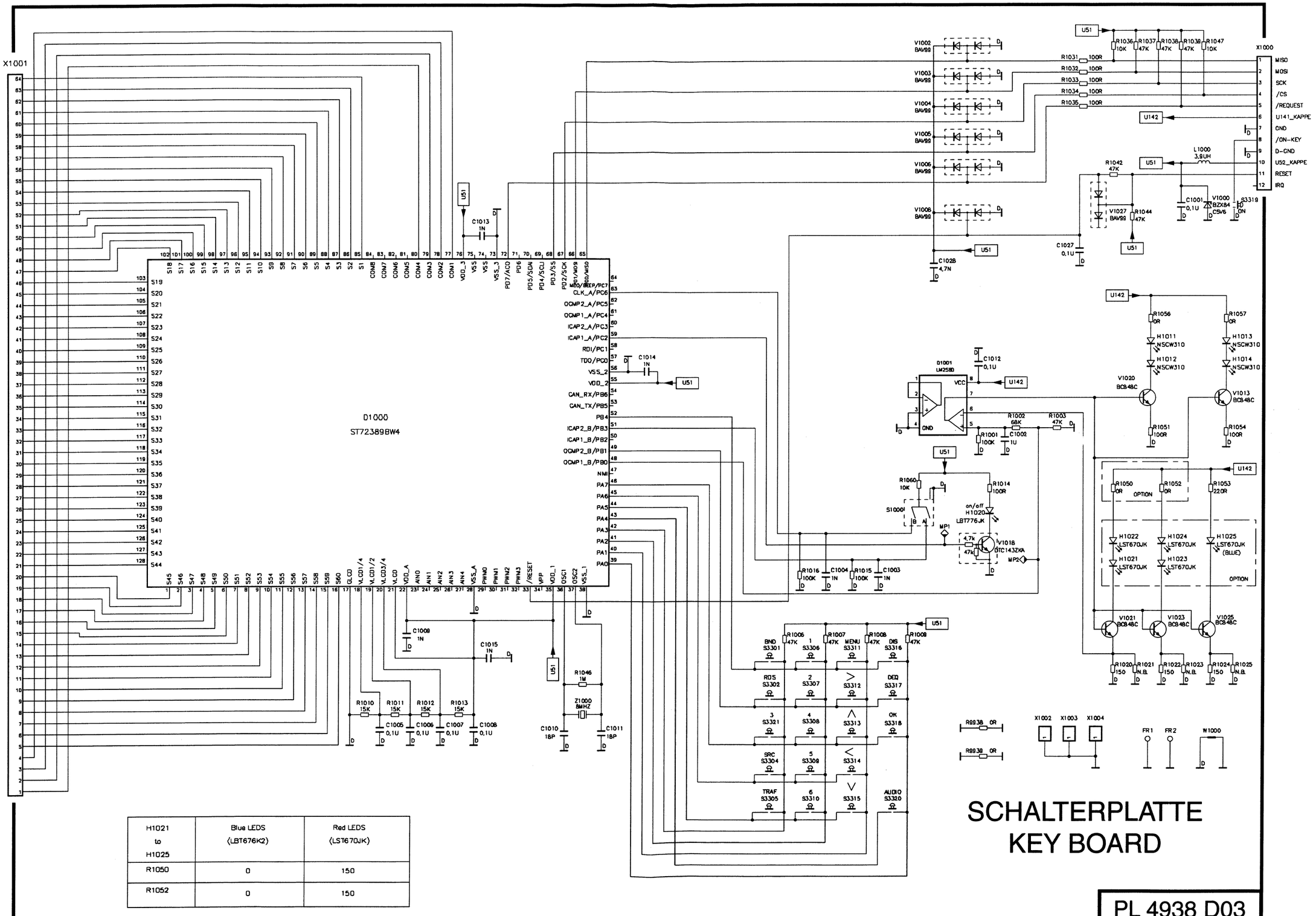
PL 4729 D08

Schalterplatte
Key board
PL 8 638 214 938 D03
+Chip



Schalterplatte
Key board
PL 8 638 214 938 D03
Chip



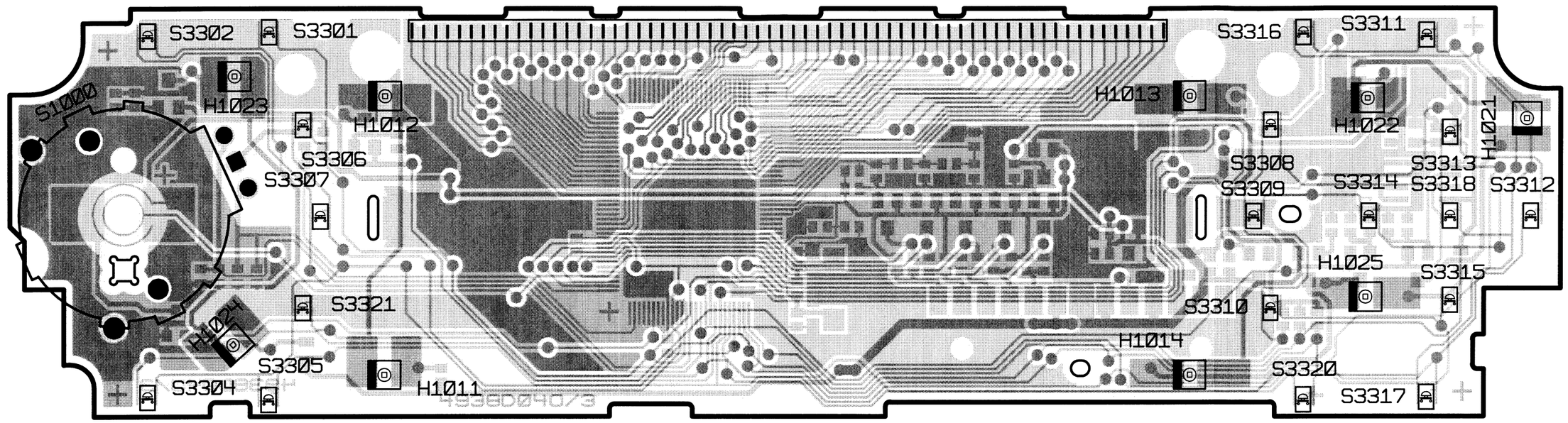


H1021 to H1025	Blue LEDS (LBT676K2)	Red LEDS (LST670JK)
R1050	0	150
R1052	0	150

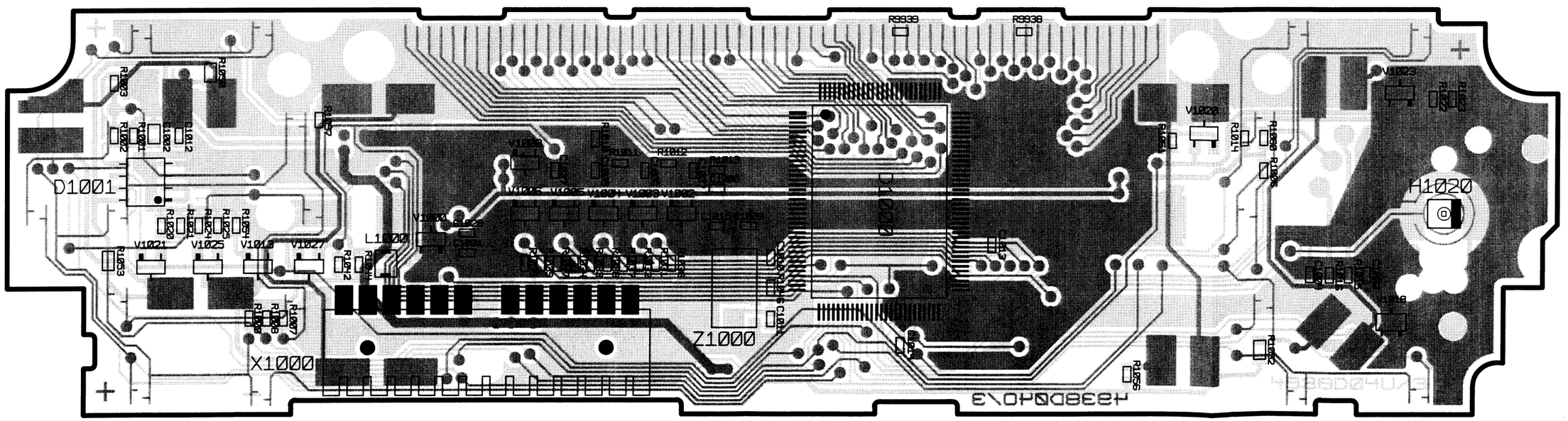
SCHALTERPLATTE
KEY BOARD

PL 4938 D03

Schalterplatte
Key board
PL 8 638 214 938 D04
B + Chip



Schalterplatte
Key board
PL 8 638 214 938 D04
Chip

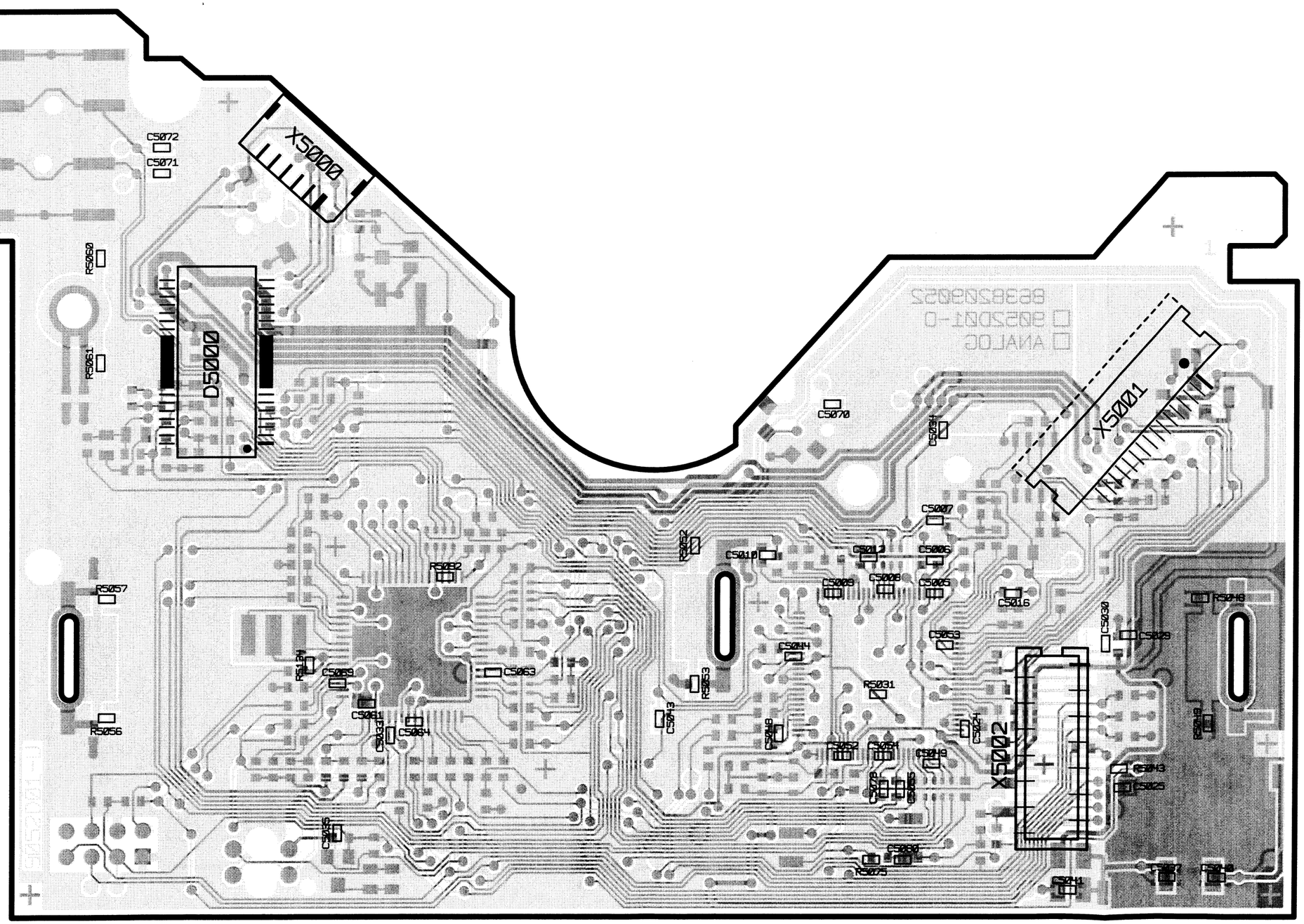


POSITION	CD 40E/CD 40U CD 50E/CD 50U CC 30E–CDC	CD 30E CD 30U CC 40E
H1021 to H1025	Blue LEDS (LBT676K2)	Red LEDS (LST670JK)
R1050	0	150
R1052	0	150

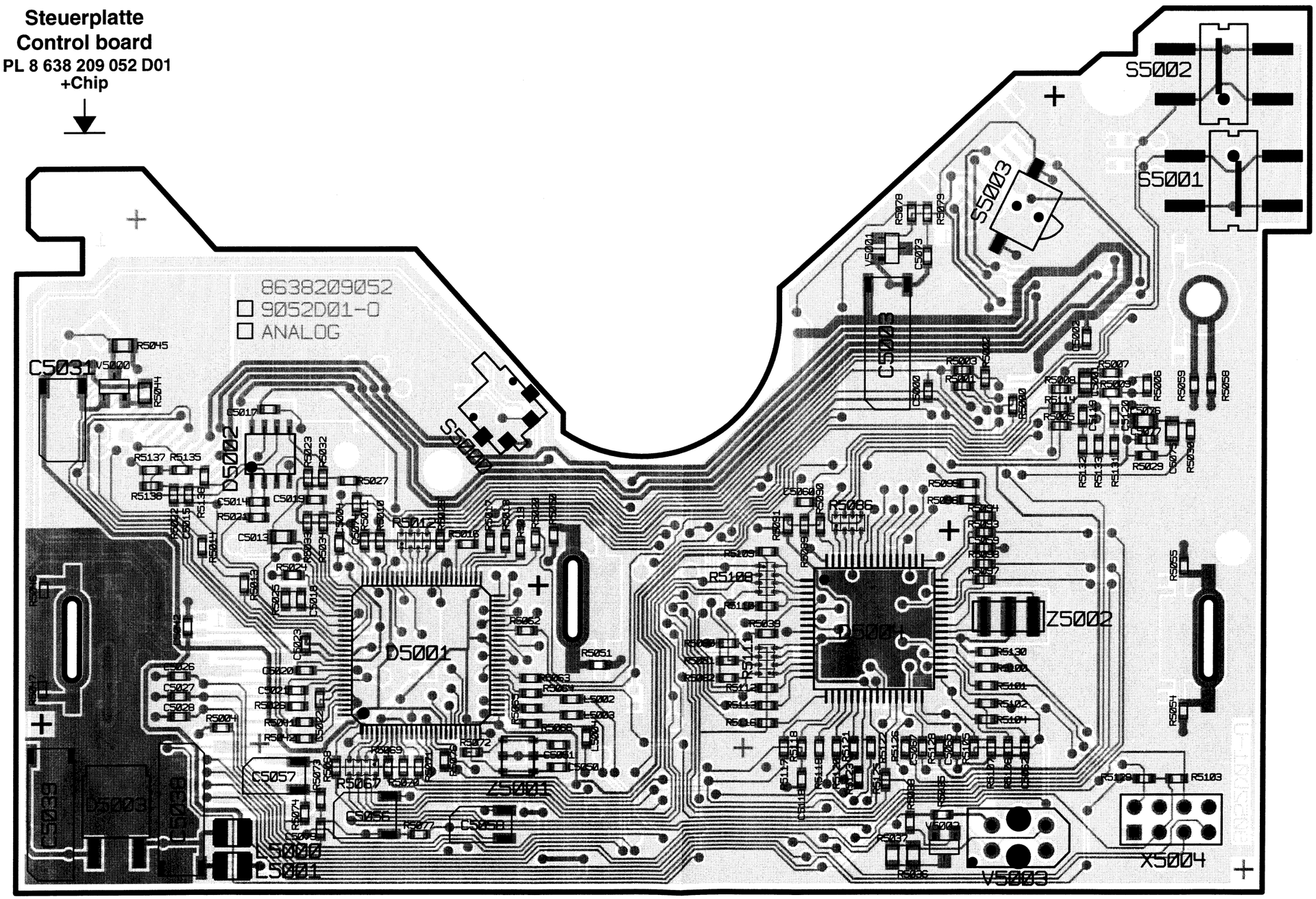
SCHALTERPLATTE
KEY BOARD

PL 4938 D04

Steuerplatte
Control board
PL 8 638 209 052 D01
Chip



Steuerplatte
Control board
PL 8 638 209 052 D01
+Chip



CD LAUFWERK BP4 R3 ANALOG
CD MECHANISM BP4 R3 ANALOG
Steuerplatte
Control board

Variantenbestueckung fuer BP4R3S mit Digitalausgang	
N = nicht bestueckt	C = EMI 1K/1ØØMHz
A = 22Ø Ohm	

PL 9052 D01